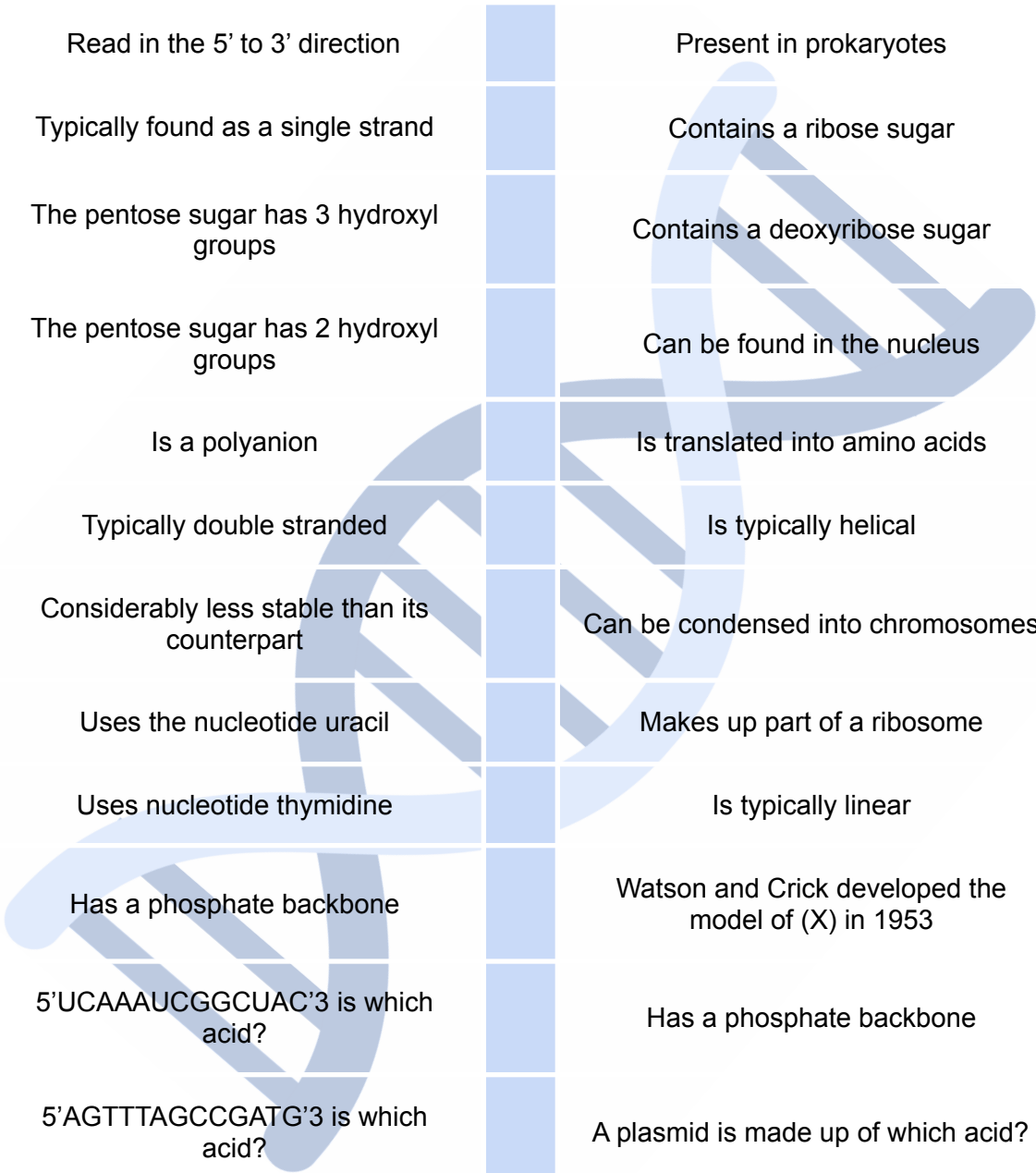


Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Understanding RNA and DNA

Directions: Write either DNA (D), RNA (R), or Both (B)



Read in the 5' to 3' direction	Present in prokaryotes
Typically found as a single strand	Contains a ribose sugar
The pentose sugar has 3 hydroxyl groups	Contains a deoxyribose sugar
The pentose sugar has 2 hydroxyl groups	Can be found in the nucleus
Is a polyanion	Is translated into amino acids
Typically double stranded	Is typically helical
Considerably less stable than its counterpart	Can be condensed into chromosomes
Uses the nucleotide uracil	Makes up part of a ribosome
Uses nucleotide thymidine	Is typically linear
Has a phosphate backbone	Watson and Crick developed the model of (X) in 1953
5'UCAAAUCGGCUAC'3 is which acid?	Has a phosphate backbone
5'AGTTTAGCCGATG'3 is which acid?	A plasmid is made up of which acid?
Contains nitrogenous bases	Uses the nucleotide cytosine